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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/762,811

01/21/2004

Jin Ho Hyun

2080-3-220

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02/22/2008

LEE, HONG, DEGERMAN, KANG & SCHMADEKA

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EXAMINER

SCHNURR, JOHN R

ART UNIT

PAPER NUMBER

2623

MAIL DATE

DELIVERY MODE

02/22/2008

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/762,811

Applicant(s)

HYUN, JIN HO

Examiner

John R. Schnurr

Art Unit

2623

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 January 2008.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 4-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1 and 4-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 21 January 2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 07/05/2005 and 09/13/2005.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____.

DETAILED ACTION

1. This Office Action is in response to the Amendment after Final filed 01/29/2008. Claims 1 and 4-6 are pending and have been examined.
2. The information disclosure statements (IDS) submitted on 07/05/2005 and 09/13/2005 were considered by the examiner.

Withdrawal of Final Rejection

3. Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Response to Arguments

4. Applicant's arguments with respect to claims 1 and 4-6 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1 and 4-6 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Schrader et al. (US Patent Application Publication 2002/0166123)**, herein **Schrader**, in view of **Freeman et al. (US Patent Application Publication 2001/0013123)**, herein **Freeman**, and further in view of **Killian (US Patent 6,163,316)**.

Consider **claims 1 and 6**, Schrader clearly teaches a digital broadcast storage device using a mark-up language. **(Fig. 5: Shows a DVR 530 for receiving**

and storing digital broadcast data, [0078] Schrader. The received data may be transmitted as Extensible Markup Language (XML), [0047].)

user interface means for allowing EPG (Electronic Program Guide) information to be used or searched; **(Fig. 8 shows a display of a user navigation guide which enables the user to use or search program information with display area 816 or course navigation bar 818. [0103])**

metadata processing means for processing and parsing received XML (Extensible Markup Language)--formatted EPG information; **(Fig. 5: Receiver 120 receives and processes XML data. [0047])**

storage means for storing the processed and parsed EPG information and the necessary data; **(Fig. 5: Mass storage device 542 stores the processed broadcast information. [0086])**

searching means for using at least one of a title, a keyword and a genre according to a user's request and provide the searched information to user through the user interface means; **(Fig. 8: Navigation guide 800 allows the user to search the broadcast information using a genre, in this case a sports genre is selected and presented in area 816, [0103]-[0104].) and**

controlling means for controlling the processing, storage and searching of the received and parsed EPG information. **(Fig. 5: Processing unit 532 controls operation of the STB 120. [0085])**

Schrader further teaches that the device contains information about viewer preferences, [0091] Schrader. However, Schrader does not explicitly teach extracting the preferences based on either user input or from a watch record based on digital broadcasts previously accessed by the user. Specifically, Schrader does not teach:

wherein the metadata processing means further comprises preference extracting means for extracting a preference that is either directly inputted by a user or automatically created from a watch record based upon specific digital broadcasts previously accessed by the user.

In an analogous art, Freeman, which discloses a system for receiving digital broadcast information, clearly teaches:

wherein the metadata processing means further comprises preference extracting means for extracting a preference that is either directly inputted by a user or automatically created from a watch record based upon specific digital broadcasts previously accessed by the user. **(User preference information may be directly input from the user or it may be collected based on the programming selections of the user. [0031])**

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schrader by obtaining the viewer preference information directly from the user or from the viewing history of the user, as taught by Freeman, for the benefit of providing programming that is of interest to the viewer (See [0008] Freeman).

Schrader further teaches allowing the processed EPG information and searched information to be displayed **(Fig. 8: The EPG information can be displayed to the user, [0103].)** and allowing the necessary data to be stored **(Fig. 5: EPG database 548 stored the EPG data, [0086].)** However, Schrader combined with Freeman does not explicitly teach displaying EPG information using an user interface API and storing the necessary data using a database management API.

In an analogous art, Killian, which discloses a system for implementing an EPG, clearly teaches displaying EPG information using an user interface API and storing the necessary data using a database management API. **(Fig. 2: Toolkit 58 includes APIs 60. These APIs can be used for displaying EPG information and manipulating program listing information stored in database 48, column 7 lines 49-58.)**

Therefore, at the time the invention was made, it would have been obvious to one with ordinary skill in the art to modify the system of Schrader and Freeman by using APIs to display and maintain the EPG information, as taught by Killian, for the benefit of allowing third party applications to utilize the functionality of the user device (See column 6 lines 32-56 Killian).

Consider **claim 4**, Schrader modified by Freeman and Killian, as in claim 1, clearly teaches a digital broadcast storage device using a mark-up language.

database managing means **(CPU 532, application specific integrated circuit (ASIC) 534, mass storage device 542. Schrader)** for managing information of the storage means; **(The system maintains a meta-data directory of recorded programs, index files and control files. [0127] Schrader)**

media file system managing means (**DVR device 530, mass storage device 542, Schrader**) for managing a file system; (**FIGS. 17a through 17c illustrate an association of various enhanced files with a DVR index file. [0134] Schrader**) and a

media router (**video output circuit 560, Schrader** for controlling a peripheral device (**display device 122, Schrader**).

Consider **claim 5**, Schrader modified by Freeman and Killian, as in claim 1, clearly teaches a digital broadcast storage device using a mark-up language.

a media management engine adapted to manage at least one of recording and reproduction of at least one of digital video and digital audio (**Fig. 5: ASIC 534 is coupled to system memory 538 and storage device 542 to permit data to be read from and written to the system memory, [0085] Freeman. Video data 550, digital programming [0040] Freeman, is stored on the mass storage device 542. [0086] Schrader**)

a metadata processing engine adapted to process and store the XML-formatted information; (**Fig. 16b and 16c: The system maintains a meta-data directory containing program information obtained from the XML formatted data. [0127] Schrader**).

an XML parsing engine adapted to parse the stored XML-formatted information. (**Data processing engine is adapted to process the received XML data. [0094] Schrader**)

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John R. Schnurr whose telephone number is (571) 270-1458. The examiner can normally be reached on Monday - Friday, 7:30am to 5:00pm.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Grant can be reached on (571) 272-7294. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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